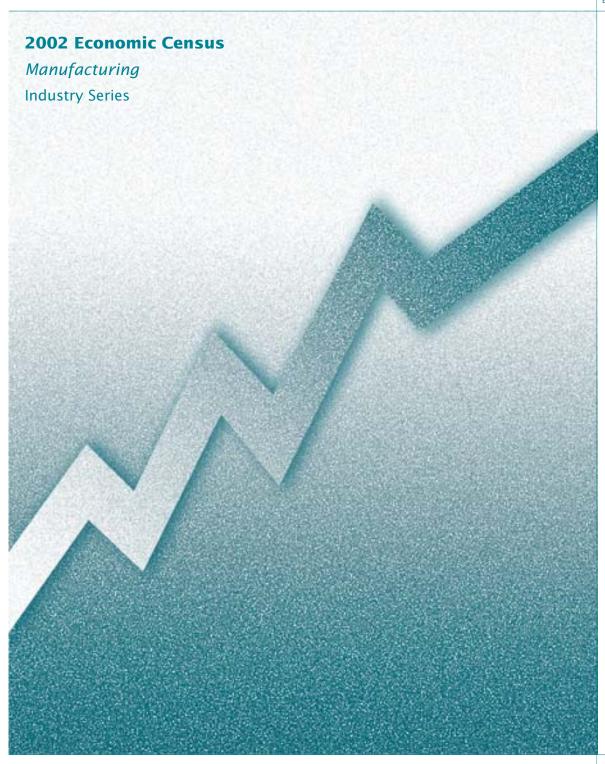
Ball and Roller Bearing Manufacturing: 2002

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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
332991, Ball and roller bearing											
manufacturing2002	121	193		1 194 921	23 884	47 383	902 822	3 524 012	2 178 210	5 735 846	r210 675
2001	N	N	32 222	1 332 692	26 290	53 298	986 401	3 007 605	2 111 269	5 186 089	270 072
2000	N	N	35 727	1 459 948	29 222	58 557	1 089 824	3 390 832	2 570 401	6 048 302	288 349
1999	N	N	35 964	1 427 753	29 441	60 337	1 071 778	3 600 290	2 489 701	6 082 524	295 149
1998	N	N	36 948	1 402 650	30 299	63 380	1 053 824	3 849 296	2 388 387	6 157 867	330 986
1997	116	184	36 547	1 368 804	29 827	63 026	1 033 718	3 742 916	2 363 496	6 093 840	309 041

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establ	ishments ²	All em	ployees	Pr	oduction worl	kers				
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
332991, Ball and roller bearing manufacturing												
United States. California Connecticut Georgia Illinois Indiana Kentucky Michigan New Jersey New York North Carolina	4 5 1 - 1 - 9	193 14 15 10 16 10 8 8 5 15	127 4 8 7 12 8 5 5 3 6	28 956 746 1 356 1 843 1 977 1 912 531 613 426 1 274 1 892	1 194 921 28 939 62 199 67 564 81 857 76 534 19 425 32 019 17 064 58 612 81 342	23 884 592 1 026 1 590 1 632 1 510 440 475 303 925 1 610	47 383 1 169 2 171 3 172 3 156 2 897 830 1 020 596 1 859 3 343	902 822 20 359 41 082 52 689 64 065 53 010 15 661 19 870 10 464 29 021 68 651	3 524 012 77 980 142 351 219 908 227 627 198 770 115 757 38 721 42 101 102 280 280 294	2 178 210 26 250 60 209 120 000 157 806 72 995 53 214 89 226 15 110 57 195 211 516	5 735 846 104 077 205 425 337 611 386 857 273 344 169 666 138 577 57 933 166 395 486 459	r210 675 r2 791 r4 339 r19 127 r28 534 r7 472 r3 525 r2 590 r1 196 r6 657 r23 852
Ohio Oklahoma Pennsylvania South Carolina Tennessee	2	12 4 9 13 8	12 1 9 12 7	4 306 152 1 134 5 684 1 400	211 909 5 913 46 388 207 698 52 702	3 652 122 907 4 906 1 206	7 638 182 1 711 9 097 2 390	174 787 4 474 32 805 166 527 41 414	704 861 4 861 182 585 575 010 185 061	426 042 17 436 82 461 412 686 89 955	1 136 407 23 044 267 590 985 480 278 577	r42 383 r733 r5 877 r30 124 r6 194

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

Includes establishments with payroll at any time during the year.

Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
332991, Ball and roller bearing manufacturing	
Companies ¹ number .	121
All establishments ² . number. Establishments with 1 to 19 employees number. Establishments with 20 to 99 employees number. Establishments with 100 employees or more number.	193 66 50 77
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	28 956 1 639 925 1 194 921 445 004
Production workers, average for year	23 884 24 191 23 931 23 845 23 540
Production worker hours	47 383 902 822
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	2 178 210 1 961 385 29 603 28 662 90 742 67 818
Quantity of electricity purchased for heat and power 1,000 kWh. Quantity of electricity generated less sold for heat and power 1,000 kWh.	1 801 802 -
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	5 735 846 5 506 992 155 962 72 892 37 257 D
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	97 5 567 253 5 506 992 60 261
Coverage ratiopercent .	99
Value added\$1,000.	3 524 012
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	839 779 316 375 268 496 254 908
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	793 269 292 555 258 692 242 022
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	'4 346 331 '210 675 '10 872 '199 803 '1 413 '7 195 '191 195 '165 507 '4 391 499
Depreciation charges during year\$1,000.	^r 212 536
Total rental payments \$1,000 Buildings and other structures \$1,000 Machinery and equipment \$1,000	25 587 9 023 16 564
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	451 812 88 127 798 5 845 3 109 2 436 1 999 13 494 7 716 17 939 20 164 251 310

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

			All emp	oloyees	Pr	oduction worke	ers		Tatal	Total	Total
Employment size class		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	value of shipments (\$1,000)	capital expendi- tures (\$1,000)
332991, Ball and roller bearing manufacturing											
All establishments Establishments with — 1 to 4 employees. 5 to 9 employees. 10 to 19 employees 20 to 49 employees 50 to 99 employees 100 to 249 employees 250 to 499 employees 500 to 999 employees 1,000 to 2,499 employees 2,500 employees 2,500 employees or more	8 4 1 1 2 -	193 32 17 17 26 24 36 26 12 3	28 956 76 116 238 843 1 841 5 740 8 499 7 617 3 986	1 194 921 2 721 4 868 9 008 32 914 68 225 235 836 330 365 323 194 187 790	23 884 61 96 182 638 1 396 4 604 7 176 6 205 3 526	47 383 109 195 378 1 301 2 885 9 192 13 887 12 337 7 099	902 822 2 000 3 884 6 370 21 376 46 682 176 406 253 412 235 148 157 544	3 524 012 7 585 12 102 25 728 83 081 202 774 743 794 958 108 1 005 542 485 298	2 178 210 4 936 6 940 14 828 88 155 126 610 387 161 659 799 498 709 391 072	5 735 846 12 099 18 684 41 468 168 467 332 939 1 155 365 1 629 546 1 495 440 881 838	'210 675 '235 '343 '1 244 '2 478 '13 648 '38 293 '70 350 '44 986 39 098
Administrative records ⁴	9	48	218	8 408	182	353	6 622	21 514	11 045	32 559	^r 682

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or primary product class	All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital
product class code		estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
332991	Ball and roller bearing manufacturing	193	28 956	1 194 921	23 884	47 383	902 822	3 524 012	2 178 210	5 735 846	^r 210 675
3329911 3329913 3329915 3329917 3329919	Ball bearings, complete, unmounted	56 18 23 10	11 456 5 989 6 219 2 180 2 636	480 941 276 454 226 442 87 391	9 119 5 157 5 376 1 762 2 084	18 402 10 517 10 134 3 265 4 293	342 523 226 412 178 110 67 341	1 200 345 906 130 747 359 355 171 266 617	925 370 569 272 359 149 122 051	2 144 467 1 475 654 1 112 461 482 534 451 675	r92 974 r50 019 r41 756 r10 256

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product :	shipments
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
332991	Ball and roller bearing manufacturing	N N	X	X	5 567 253 5 934 983
3329911	Ball bearings, complete, unmounted	N N	X	X X	1 920 120 2 107 110
33299111	Ball bearings, complete, unmounted	N N	x X	X X	1 920 120 2 107 110
3329911100	Ball bearings, complete, unmounted ¹	47 51	x x	x x	1 920 120 2 107 110
3329913	Tapered roller bearings (including cups and cones), 2002	N N	×	X	1 465 005 1 470 822
33299131	Tapered roller bearings (including cups and cones), unmounted	N	x	Х	1 465 005
3329913100	Tapered roller bearings (including cups and cones), unmounted ¹	N 16	X X	X X	1 470 822 1 465 005
	1997	14	â	x	1 470 822
3329915	Other roller bearings, unmounted	N N	X	X X	1 042 773 1 171 970
33299151	Other roller bearings, unmounted	N N	x l	X	1 042 773 1 171 970
3329915100	Other roller bearings, unmounted ¹	22 24	X X X	X	1 042 773 1 171 970
3329917	Mounted bearings (except plain)	N N	×	X	458 422 475 039
33299171	Mounted bearings (except plain)	N N	X X X	X	458 422 475 039
3329917100	Mounted bearings (except plain) ¹	15 17	x x	X X	458 422 475 039
3329919	Parts and components for ball and roller bearings (including balls and rollers), sold separately (excluding cups and cones)	N	X	X	624 222
33299191	Parts and components for ball and roller bearings (including balls and rollers), sold separately (excluding cups and	N	X	Х	648 035
	cones)	N N	XX	X X	624 222 648 035
3329919100	Parts and components for ball and roller bearings (including balls and rollers), sold separately (excluding cups and				
	cones) ¹	33 35	X	X	624 222 648 035
332991W	Ball and roller bearing manufacturing, nsk, total	N N	X	X	56 711 62 007
332991WY	Ball and roller bearing manufacturing, nsk, total	N N	x X	x x	56 711 62 007
332991WYWW	Ball and roller bearing manufacturing, nsk, for nonadministrative-record establishments	N	x	Х	25 739
332991WYWY	Ball and roller bearing manufacturing, nsk, for administrative-record establishments	N N	X	X	24 243
	administrative-record establishments	N N	XX	X X	30 972 37 764

¹For additional detail, see Current Industrial Report MA332Q, Antifriction Bearings.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3329911	Ball bearings, complete, unmounted	
	United States	1 920 120
	1997 2002 2002	2 107 110 97 489
	1997 1997 2002 1003	108 520 155 303 197 256
	1997. Kentucky 2002. 1997.	94 076 97 961
	Michigan	121 599 N
	New York	110 101 183 852
	North Carolina	62 768 69 761
	Pennsylvania	115 431 144 110
3329913	Tapered roller bearings (including cups and cones), unmounted	
	United States	1 465 005 1 470 822
	South Carolina	220 810 246 136
3329915	Other roller bearings, unmounted	
	United States	1 042 773 1 171 970
	Indiana	126 117 N
	Ohio	9 929 N
	South Carolina	477 447 508 400
3329917	Mounted bearings (except plain)	
	United States	458 422 475 039
3329919	Parts and components for ball and roller bearings (including balls and rollers), sold separately (excluding cups and cones)	
	United States	624 222 648 035
	Connecticut	78 681 73 165
	Illinois	73 103 59 111 33 827
	Pennsylvania	19 599 N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
332991	Ball and roller bearing manufacturing		
00900001	Total materials	X	1 961 385
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	2 108 792 28 311
33200095	Other fabricated metal products (excluding castings and forgings)	X X X	18 477 35 964 4 630
33211103	Cold iron and steel forgings	X	86 749 25 677
33211111	Other iron and steel forgings	x x	145 104
33151001	Iron and steel castings (rough and semifinished)	X X	239 026 79 872 42 399
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X X X	757 3 149
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	164 674 186 836
33120016	Steel sheet and strip (including tinplate)	X	75 455 N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	150 276 190 096
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	x	4 490
33299101	Ball and roller bearings (mounted or unmounted)	x x	N D
30233101	1997	x	N
33299107	Balls, rollers, cages, collars, races, and other antifriction bearing components and parts	×	551 641 601 417
33361305	Clutches, couplings, shafts, sprockets, and other mechanical power transmission equipment	x x x	3 495 2 761
33531207	Electric motors, generators, and parts	x x	13 317 15 085
32221001	Paperboard containers, boxes, and corrugated paperboard	X	12 438 19 834
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X X X	32 453 38 049
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X X	16 063 4 093
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools)	X X X	D 37 681
00970099	All other materials and components, parts, containers, and supplies	X X	354 343 609 036
00971000	Materials, ingredients, containers, and supplies, nsk .20021997	X X	98 468 70 546

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.